Qty:

`2Q Um:

Each

: DECAL

: D32763

: N/A

:NIA

: 12/21/2005

: B

: D3276 REV B

Wednesday, 12/14/2005 3:57:05 PM

User:

Kim Johnston

Process Sheet

Drawing Name

Part Number

Material

Due Date

Drawing Number

Project Number

Drawing Revision

Customer

: CU-DAR001 Dart Helicopters Services

Job Number **Estimate Number** : 25228 : 11164

P.O. Number

First Issue

Written By

Previous Run

:NIA : 12/14/2005

This Issue Prsht Rev.

: NC

: NIA : NIA

S.O. No. : NA

Type

: PURCHASED PARTS

Checked & Approved By

Comment

Est A 05.02.14 New issue KJ/JLM

Additional Product

Job Number:



Seq. #:

Machine Or Operation:

Description:

PURCHASING

1.0

PG

Comment: PURCHASING

Issue P/O: 0000299

For D3276-1 decal as per Dwg D3276 Possible Supplier: Studio Lettrage Material release note is required

2.0

D32763

Decal



Comment: Qty.:

0.0000 Each(s)/Unit

Total:

0.0000 Each(s)

Decal

3.0

PACKAGING 1

PACKAGING RESOURCE #1



Comment: PACKAGING RESOURCE #1

Recieive & Inspect for Transit Damage

Ensure Material Release Note is attached

4.0

QC5

INSPECT WORK TO CURRENT

Comment: INSPECT WORK TO CURRENT STEP

5.0

PACKAGING RESOURCE #1

PACKAGING 1

Comment: PACKAGING RESOURCE #1

Identify and Stock Location: 410



05/12/28

ZL

22

Page 1

Form: rprocess

Dart Aerospace Ltd

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
							·

Part No:	PAR #:	Fault Category:	NCR: Yes No	DQA:	Date: <u>06/6//0</u>
			QA: N/C C	losed:	Date:

NCR:		WORK ORDER NON-CONFORMANCE (NCR)									
		Description of NC		Corrective Action Section B				Approval			
DATE	STEP	Section A	Initial Chief Eng			Sign & Section C		Approval QC Inspector			
				•							

NOTE: Date & initial all entries

Date:

Wednesday, 12/14/2005 3:57:05 PM

Kim Johnston User:

Process Sheet

Customer: CU-DAR001 Dart Helicopters Services

Drawing Name: DECAL

Job Number: 25228

Part Number: D32763

Job Number:



Seq. #:

Machine Or Operation:

Description:

6.0

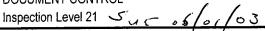
DC

DOCUMENT CONTROL





Comment: DOCUMENT CONTROL





Job Completion

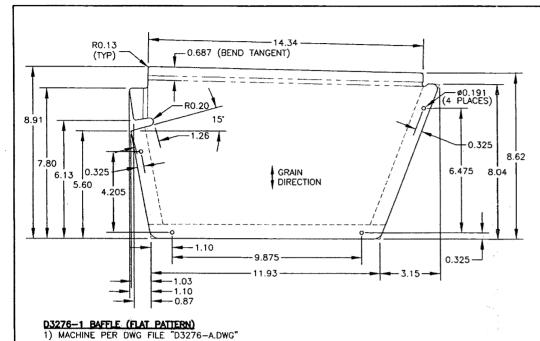


Dart Aerospace Ltd

W/O:		WORK ORDER CHANGES							
DATE	STEP	PI	ROCEDURE CHANGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approva QC Inspector
Part No	:	PAR #:	Fault Category:	NCI	R: Yes	No DQ	A:	_ Date: _	
					QA: I	N/C Close	d:	_ Date: _	

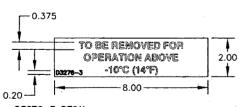
NCR:		WORK ORDER NON-CONFORMANCE (NCR)									
		Description of NC		Corrective Action Section B		Verification					
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Approval Chief Eng	Approval QC Inspector			
						-					

NOTE: Date & initial all entries



0.72 -D3276-3 DECAL SECTION A-A
JOGGLE DETAIL 0.23 (ON THIS SIDE -041, -042 OPPOSITE, CENTERED ON PART) D3276-1 BAFFLE 0.63 R0.13 (BEND DOWN -041, **JOGGLE** BEND UP -042) -RO.13 TO BE REMOVED FOR **OPERATION ABOVE** -10°C (14°F) D2464-0270 NEOPRENE SEAL 0.8 --(ON UNDERSIDE -041, -042 OPPOSITE, TRIM TO FIT)

D3276-041 BAFFLE ASSEMBLY, LH (SHOWN)
D3276-042 BAFFLE ASSEMBLY, RH (BEND/JOGGLE OPPOSITE)



D3276-3 DECAL

1) RED LETTERING ON WHITE ADHESIVE BACK

2) MANUFACTURE FROM 3M 7 MIL MASKING FILM #8522CP OR AVERY IPM #2031

POWDER COAT GLOSS WHITE (4.3.5.1) PER DART QSI 005 4.3

3) ALL DIMENSIONS ARE IN INCHES

4) ALL DIMENSIONS ARE IN INCHES

4) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED

2) MATERIAL: 6061-T6 ALUMINUM 0.040 THICK (QQ-A-250/11) (REF DART SPEC. M6061T6S.040)

3) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1

5) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED



	В		05.01.25	LABEL NOW -10	C CURVE PART
	A		05.01.07	NEW ISSUE	
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THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE	CHECKE	°#	APPROVED	D3276	REV. B SHEET 1 OF 1
OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DARY AEROSPACE LTD.	05.01	.25	- 18 14	TITLE BAFFLE ASSEMBL	SCALE Y 1:3



210 MAIN W., HAWKESBURY, ONT. K6A 2H6

Tel.: 613 632-5449 Fax: 613 632-9491

www.studiolettrage.on.ca

INVOICE / FACTURE

No.:

6095

DATE:

12/21/2005

PAGE

1 of 1

Re: Quote No. 1035

VENDU À: SOLD TO:

> Dart Aerospace Ltd 1270 Aberdeen Hawkesbury, Ontario K6A 1K7

LIVRÉ À: SHIPPED TO:

Dart Aerospace Ltd

Hawkesbury, Ontario

ITEM ARTICLE	QTY QYÉ	UNIT UNITÉ	DESCRIPTION	GST TPS	PST TVP	UNIT PRICE PRIX UNITÉ	AMOUNT MONTANT
		20	D32763 D 33831	E		4.660 4.667	93.20 46.67
			Subtotal:	,			139.87
			E - GST 7% GST				9.79
		1	PST Exempt: #6122-5207				
			Terms: Net 30. Due 01/20/2006.				
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			05-12-23			·	
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	$\overline{}$		GST/TPS: R122278690				
/ /	il Th	ank You!				TOTAL	
/PO#0000299	u 100	gir TOU!				TOTAL	149.66

Product Bulletin 8522

3M

Release F, Effective January 2003 Black bar in margin indicates a change

Scotchcal [™] Opaque Imaging Media 8522

Description

This media is specially formulated to dry quickly after printing. Production of outdoor weatherable and long-term indoor durable graphics is now easier than ever. Its changeable adhesive allows easy removal for up to one year.

Advantages

- Optimized for use with selected Epson Stylus Pro printers and Epson Archival inks.
- Optimized for use with selected HP DesignJet Printers and HP DesignJet Ink System UV or HP83UV Color Ink System
- For making opaque, laminated graphics that are outdoor weatherable and long-term indoor durable
- Media:
 - For opaque (reflective) graphics
 - Changeable, easy to remove from warranted substrates up to 1 year later
 - Dries quickly after printing so the overlaminate can be applied almost immediately
 - Low slippage paper liner for superior tiling
- Overlaminates:
 - Provide additional UV (ultraviolet) and physical protection for making weatherable finished graphics
 - Available in luster and matte gloss
 - Adhesive allows for heat-assisted or cold-temperature lamination

Applications and Uses

3M [™] Scotchcal [™] Changeable Opaque Imaging Media 8522 is intended only for ink jet printing and for use with the listed Compatible Products and Equipment and the following applications. Any other application is NOT warranted by 3M or covered by the worldwide 3M [™] MCS [™] Warranty unless 3M gives its prior written approval for the application.

- First surface images (the image is on top of the film) for opaque posters and signs, including:
 - Graphics for vans, personal vehicles, trucks and buses
 - Novelty posters
 - Retail and point-of-purchase displays
 - Information graphics such as maps and directories
 - Entertainment promotions in museums, zoos, parks, theatres, sports venues
 - Education and presentation graphics

- Legal and courtroom exhibits
- For flat or simple curved surfaces, with or without rivets, used in vertical (± 10°) applications

Limitations of End Uses

The following uses and applications are specifically NOT

- Fleet applications in areas that use salt for winter road maintenance
- Application to non-warranted substrates, including wallboard
- Applications subjected to gasoline vapors or spills
- Application to corrugated or highly irregular surfaces or sharply raised areas
- Graphics applied to stainless steel, including stainless steel vehicles
- On flat surfaces with rivets, tenting of 4 to 10 mm around rivets may be expected; rivets may be cut around to eliminate tenting.

Note: Standard ink jet technology is water based. Water-based chemistry is susceptible to the extremes of heat and humidity. This is a factor in most product constructions on the market. Read the Fabrication, Shelf Life and Storage sections in this bulletin. Staying in the middle of these ranges always provides optimum performance.

Compatible Products and Equipment

Thermal Ink Jet Printing Systems

- Epson Stylus Pro 9500, Stylus Pro 10000 printer
 - Epson Archival Inks
- Epson Stylus Pro 10600 printer
 - Epson Archival Inks
- HP DesignJet Printers 2000 and 3000 series
 - HP DesignJet Ink System UV (pigment-based ink)
- HP DesignJet Printers 5000 series
 - HP83UV Color Ink System

Overlaminates (required)

- 3M[™] Luster Overlaminate 8519 (semi-gloss)
- 3M [™] Matte Overlaminate 8520

Note: For the full product names of the 3M products listed on this page, please see page 1.

Warranted Substrates

Media 8522 is warranted for use on the following rigid substrates.

Some substrates may "out-gas", resulting in tiny bubbles throughout the surface of the graphic. For maximum performance, be sure the substrate you select is properly cleaned and prepared as recommended by the manufacturer. See Instruction Bulletin 5.1 for additional information.

- Alodine (anodized aluminum)
- Automotive panels (automotive painted steel)
- Fruehauf (painted aluminum)
- FRP (fiberglass reinforced plywood)
- Glass
- Imron® (polyurethane-painted metal panel)
- Acrylic
- Sintra[™] board

Test and Approve Non-warranted Substrates Before Use

Media 8522 is not warranted for any substrate other than those listed above. If you want to use it for other substrates, 3M recommends that you test and approve the media for both adhesion and removal characteristics.

Characteristics

Characteristic	Description
Media	7 mil, white, opaque graphic film
Liner	Low-slippage, lay flat paper
Adhesive	Changeable, pressure sensitive
Thickness (media and adhesive)	7.5 to 8 mil (nominal)
Application substrates	See Warranted Substrates, above
Application surfaces	Flat or simple curved surfaces, with or without rivets, used in vertical (± 10°) applications (no corrugations)
Application temperature range	28° to 110°F (-2° to 43°C) (air and surface)
Roll sizes	36" x 45 feet (914 mm x 13.5 m) 54" x 45 feet (1372 mm x 13.5 m)

How to Become a 3M Ink Jet Registered Fabricator

Only 3M Thermal Ink Jet Registered Fabricators are eligible to offer 3M MCS warranted graphics. In order to become certified, a fabricator must complete the requirements as specified in the 3M Ink Jet Graphics Registered Fabricator Reference Manual located on the 3M website at www. scotchprint.com

Effective Performance Life

To obtain the warranty given below, the graphics must be made according to 3M's recommendations which are detailed in the Warranty and Limited Remedies on page 3. Also see the section, Removability.

Warranted Durability

Media 8522 with	Epson Pr	inters	HP Printers		
Overlaminate 8519 or 8520	Outdoor	Indoor	Outdoor	Indoor	
Applied to Warranted Substrates	2 years	5 years	3 years	5 years	

Removability

Imaging media 8522 is removable from warranted substrates for 1 year without the aid of chemical strippers or accessories. Refer to Instruction Bulletin 4.23 for additional information.

Fabrication

Graphics must be made according to 3M's recommendations which are detailed in the Warranty and Limited Remedies on page 3.

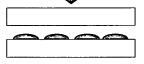
See Instruction Bulletin 4.23 for detailed fabrication, printing and mounting information.

Graphic Construction Options

Opaque (Reflective) Graphics

Opaque graphics made with imaging media 8522 require an overlaminate and an opaque substrate.

Viewer/Light Source



Overlaminate 8519, 8520 Adhesive on bottom

Imaging Media 8522 Image on top; adhesive on bottom

Opaque Substrate

Note: For the full product names of the 3M products listed on this page, please see page 1.

Shelf Life and Storage

- 3M[™] Scotchcal[™] Changeable Opaque Imaging Media 8522 has a shelf life of one year.
- Storage conditions (new and partially used rolls). For optimum performance, use the middle of these ranges:
 - Original packaging, including plastic wrap
 - Relative humidity of 20% to 80%
 - Temperature of 33° to 104°F (0° to 40°C)
 - Away from direct sunlight
- Do not stack unprotected rolls or lay sharp or heavy objects on them.

Health and Safety

Caution

When handling any chemical products, read the manufacturers' container labels and the Material Safety Data Sheets (MSDS) for important health, safety and environmental information.

To obtain MSDS sheets for 3M products:

- By fax, call 1-800-364-0768 in the US and Canada or 1-650-556-8417 for all other locations.
- Electronically, visit us at http://www.3M.com/msds.
- By mail, or in case of an emergency, call 1-800-364-3577 or 1-651-737-6501.

When using any equipment, always follow the manufacturers' instructions for safe operation.

Warranty and Limited Remedies

3M [™] MCS [™] Warranty for Graphics Produced on HP DesignJet Printers and Epson Stylus Pro Printers

The following is made in lieu of all other express or implied warranties, including any implied warranty of merchantability or fitness for a particular purpose: We warrant graphics produced by a 3M Ink Jet Registered Fabricator made with imaging media 8522, printed on an approved HP thermal ink jet printer according to HP's recommendations or Epson Stylus Pro printer according to Epson's recommendations, overlaminated with 8519 or 8520, and applied to a Warranted Substrate according to 3M's recommendations. These

3M Canada

P.O. Box 5757

London, Ontario

Canada N6A 4T1

1-800-265-1840

Fax 519-452-6245

graphics are covered against failure caused by ultraviolet light, temperature extremes, pollution, and other elements.

If a graphic fails to perform in accordance with 3M product specifications within this time frame, 3M will replace the materials at no charge. These remedies are exclusive. In no case shall 3M be liable for any direct, indirect, or consequential damages, including any labor charges.

3M Related Literature

Listed below is related 3M technical literature that may be of interest. You may view and print these Bulletins from our Web site at www.scotchprint.com, or order them via our Faxon-Demand (FOD) system. Call one of these phone numbers to order the desired bulletins, and specify the FOD document number provided in the chart.

United States or Canada: 1-800-364-0768 International: 1-651-732-6506

Subject	Bulletin No.	FOD No.		
Product Bulletins				
3M [™] Scotchcal [™] Overlaminate 8519 and 8520	8519/8520	4524		
Instruction Bulletins				
Making thermal ink jet graphics	4.23	6523		
Application, substrate selection, preparation and substrate-specific application techniques	5.1	7001		
Warranties				
Worldwide 3M™ MCS™ Warranty Packet (includes all Commercial Graphics MCS Warranties)				
Worldwide 3M [™] MCS [™] Warranty Overview-Folder				

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Epson and Stylus Pro are trademarks of Epson.
HP and DesignJet are tradenames of Hewlett Packard.
Sintra is a trademark of Swiss Aluminum Ltd.
Imron is a registered trademark of DuPont in the United States

Bulletin Change Summary

The Epson Stylus Pro Printers 9500, 10000 10600, and Epson Archival Inks have been added to this bulletin. Additional changes resulting from this addition are marked with black bars in the margin.

3M

Commercial Graphics Division 3M Center, Building 220-6W-06 PO Box 33220 St. Paul, MN 55133-3220 USA General Info. 1-800-374-6772

St. Paul, MN 55133-3220 USA General Info. 1-800-374-6772 Technical Info. 1-800-328-3908 Fax 1-651-736-4233

Fax 1-051-730-4233 Fax-on-Demand 1-800-364-0768 US/Canada or 1-651-732-6506 International Fax-on-Demand document: 4506 www.scotchprint.com 3M México, S.A. de C.V.

Av. Santa Fe No. 55 Col. Santa Fe, Del. Alvaro Obregón México, D.F. 01210 52-55-52-70-04-00 Fax 52-55-52-70-22-77 3M Puerto Rico, Inc.

Puerto Rico Industrial Park P.O. Box 100 Carolina, PR 00986-0100 787-620-3000 Fax 787-750-3035

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Product Bulletin 8522 – 3